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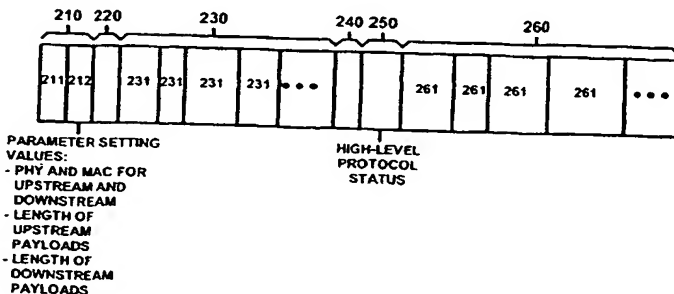
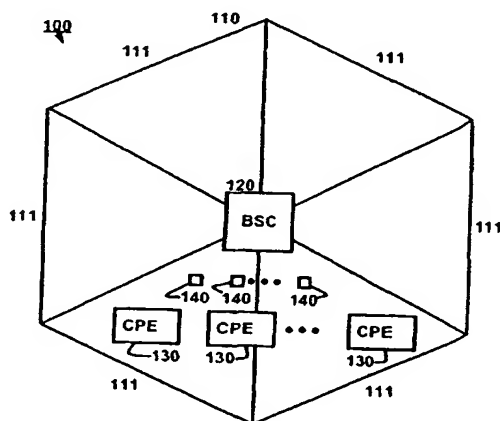
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[Continued on next page]

(54) Title: AUTOMATIC RETRANSMISSION AND ERROR RECOVERY FOR PACKET ORIENTED POINT-TO-MULTI-POINT COMMUNICATION



(57) Abstract: A wireless communication link is divided into a downstream portion and an upstream portion. Parameters are selected for automatic retransmission independently for the downstream portion and the upstream portion of the wireless communication link. A BSC controls the selection of parameters for automatic retransmission for all CPE within a cell. As part of a TDD frame, the BSC includes its selection of parameters for automatic retransmission to be used by CPE within a control section of the TDD frame. The BSC dynamically and adaptively determines new selected parameters for automatic retransmission, in response to conditions of a wireless communication link with each independent CPE. The BSC dynamically and adaptively allocates acknowledgement time slots within the upstream portion of the TDD frame, for use by each selected CPE. The BSC allocates some portion of the upstream bandwidth as a shared resource and some portion of the upstream bandwidth as unshared when there are messages received but not yet acknowledged.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04L1/18 H04L1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 22865 A (ERICSSON TELEFON AB L M) 20 April 2000 (2000-04-20) page 1, line 26 -page 2, line 32 page 6, line 20 -page 7, line 33; figure 2 ---	1-8
A	EP 0 794 631 A (KOKUSAI DENSHIN DENWA CO LTD) 10 September 1997 (1997-09-10) abstract page 2, line 19 - line 23 page 2, line 54 -page 3, line 15 page 10, line 46 - line 53 page 12, line 23 - line 25 ---	1-6
X	US 5 684 791 A (RAYCHAUDHURI DIPANKAR ET AL) 4 November 1997 (1997-11-04) column 5, line 54 -column 6, line 24; figure 4 column 9, line 1 - line 8 ---	7-10

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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>INOUE M ET AL: "LINK-ADAPTIVE RESOURCE SCHEDULING FOR WIRELESS MESSAGE TRANSPORT" IEEE GLOBECOM 1998. GLOBECOM '98. THE BRIDGE TO GLOBAL INTEGRATION. SYDNEY, NOV. 8 - 12, 1998, IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE, NEW YORK, NY: IEEE, US, vol. 4, 8 November 1998 (1998-11-08), pages 2223-2228, XP000894436 ISBN: 0-7803-4985-7 the whole document</p> <p>-----</p>	7, 8, 10, 11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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US 5684791	A	04-11-1997	NONE	

